

is obtained. Curve 400 represents the current from photodiode A and curve 500 represents the current from photodiode B. As can be seen from curve 600, the manipulation of the separate photodiode signals, in this case $I_{OUT} = n^*(I_B - (I_A - I_B))$ results in signal 600 centered at approximately 555 nanometers wavelength.

In the Claims:

Claim 1 Amendment

Please amend Claim 1 as follows:

1. (Once Amended) Apparatus for generating an electronic signal in response to selected wavelengths of light comprising:

a first photodiode for converting at least the selected wavelengths of light to a corresponding first electronic signal;

a second photodiode for converting said wavelengths of light to a corresponding second electronic signal; and

a circuit for manipulating the first and second electronic signals to generate an output signal in response to the selected wavelengths of light.

Claim 9 Amendment

Please amend Claim 9 as follows:

9. (Once Amended) Apparatus for generating an electronic signal in response to selected wavelengths of light comprising:

a first sensor for converting at least the selected wavelengths of light to a corresponding first electronic signal;

a second sensor for converting said wavelengths of light to a corresponding second electronic signal;

wherein the first and second sensors are provided with a spectral sensitivity differential; and

a circuit for manipulating the first and second electronic signals to generate an output signal in response to the selected wavelengths of light.

Claim 16 Amendment

Please amend Claim 16 as follows:

16. (Once Amended) A method of generating an electronic signal corresponding to selected wavelengths of light, the method comprising the steps of:

converting wavelength ranges of light into first and second electronic signals wherein at least one of the wavelength ranges includes the selected wavelengths; and

manipulating the first and second electronic signals to generate an output signal corresponding to the selected wavelengths of light.

Claim 17 Amendment

Please amend Claim 17 as follows:

17. (Once amended) The method according to claim 16, wherein the converting step further comprises the steps of:

converting said wavelength ranges of light, including at least the selected wavelengths of light, to a corresponding first electronic signal; and

converting said wavelength ranges of light, including at least wavelengths distinct from the selected wavelengths of light, to a corresponding second electronic signal.